

## AN ANTENNA RADIATOR ASSEMBLY AND RADIO COMMUNICATIONS DEVICE

### ABSTRACT OF THE DISCLOSURE

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An antenna radiator assembly (45) comprising radio frequency communications circuitry (8,9) and a ground plane (40). There is a radio frequency radiator element (7) and a feed point electrically coupling the radio frequency radiator element (7) to the radio frequency communications circuitry (8,9), the feed point physically contacting the radio frequency radiator element (7) at a feed contact point (51). A first ground connector couples the radio frequency radiator element to the ground plane (40), the first ground connector electrically coupling the radio frequency radiator element (7) at a first ground contact point (53). A second ground connector selectively couples the radio frequency radiator element to the ground plane through a switching unit (22), the second ground connector electrically coupling the radio frequency radiator element (7) at a second ground contact point (56). The antenna radiator assembly (45) forms part of a radio communications device (1).

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Fig. 2 accompanies this abstract.